

Table 1.

| Planet | Daytime Mean Surface Temperature (K) | Presence of Water and Location | Composition of Planet Core | Composition of atmosphere (Mostly...) | Mass of Planet ($\times 10^{24}$ kg) | Comparing Mass to Earth's Mass | Escape Velocity (m/s) | Atmospheric Pressure ($\times 10^5$ Pa) |
|-----------------|--------------------------------------|--|----------------------------|---------------------------------------|---------------------------------------|--------------------------------|-----------------------|--|
| Earth (Rocky) | 290 | Yes - as a liquid, solid and a gas, found on the surface and in the atmosphere | Iron and Nickel | Nitrogen and Oxygen | 5.97 | 1 Earth masses | 11,200 | 1 |
| Mars (Rocky) | 250 | Yes - absorbed in the clay and rocks of the surface crust | Iron, Nickel and Sulfur | Carbon Dioxide | 0.64 | $\frac{1}{9}$ Earth masses | 5020 | 0.006 |
| Mercury (Rocky) | 700 | Maybe - as a solid on surface, in regions of permanent | Iron | Oxygen, Sodium and Hydrogen | 0.33 | $\frac{1}{18}$ Earth masses | 4400 | 0 |

| | | | | | | | | |
|----------------------|------------------------|--|-----------------------------------|------------------------------------|------|---------------------------------|--------|------------|
| | | shadows | | | | | | |
| Venus (Rocky) | 750 | No | Iron | Carbon Dioxide | 4.87 | $\frac{1}{1.2}$ Earth masses | 10,400 | 92 |
| Jupiter (Gaseous) | 125 (at cloud-tops) | Yes - as a gas in the atmosphere | Iron and silicate materials | Hydrogen and Helium | 1898 | 318 Earth masses | 59,500 | 45,000,000 |
| Neptune (Gaseous) | 55 (at cloud-tops) | Yes - as a liquid and solid on the surface | Silicate rock and water ice | Hydrogen, Helium and Methane | 102 | 17 Earth masses | 23,500 | 100,000 |